INTERNATIONAL SEARCH REPORT

Internat plication No PCT/US 03/20641

A. CLASSI	FICATION OF CUR LEGT MATTER		I FC	1/03 03/20041							
ÎPC 7	FO2M57/02 FO2M59/46	F02M59/36	F02M55/02	F02M61/16							
According to	International Patent Classification (IPC) or to be	oth national classification ar	id IPC		;						
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED											
Minimum documentation searched (classification system followed by classification symbols)											
IPC 7 FO2M											
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched											
•	ata base consulted during the international sear	ch (name of data base and,	where practical, sear	ch terms used)							
EPO-In	ternal				•						
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C. DOCUMENTS CONSIDERED TO BE RELEVANT											
Category °	Citation of document, with indication, where a	oppopriate of the selevent									
	The state of the s	ppropriate, or the relevant p	assages 	Relevant to	claim No.						
Υ	US 6 565 020 B1 (HELSEL TODD ET AL)				6						
Α	20 May 2003 (2003-05-20) column 4, line 1 - line 32; figure 1										
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ľ	US 4 782 807 A (TAKAHASHI TAKESHI) 8 November 1988 (1988-11-08)				6						
Α	abstract; figures	11 00)		7							
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Further documents are listed in the continuation of box C. X Patent family members are listed in annex.											
	legories of cited documents:	T' lat	er document publishe	after the international filing date							
A document defining the general state of the art which is not considered to be of particular relevance *Considered to be of particular relevance											
"E" earlier document but published on or after the international											
L document which may throw doubts on priority claim(s) or involve as involv											
which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance: the claimed invention											
O' document referring to an oral disclosure, use, exhibition or document referring to an oral disclosure, use, exhibition or											
P document published prior to the international filling date but in the art.											
& document member of the same patent family											
Date of the actual completion of the international search Date of mailing of the international search report											
31 October 2003 14/11/2003											
Name and mailing address of the ISA Authorized officer											
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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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